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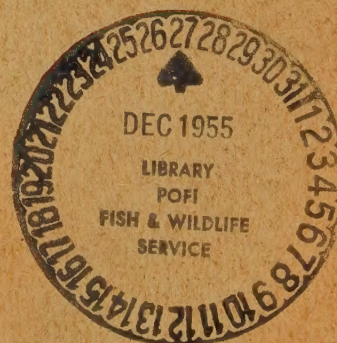
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OF THE

SCIENTIFIC AND TECHNICAL
DOCUMENTATION CENTRE

صديفة مركز الوثائق والمخابرات العلمفة والفنية



المعهد القومي للبحوث

NATIONAL RESEARCH COUNCIL OF EGYPT
CAIRO

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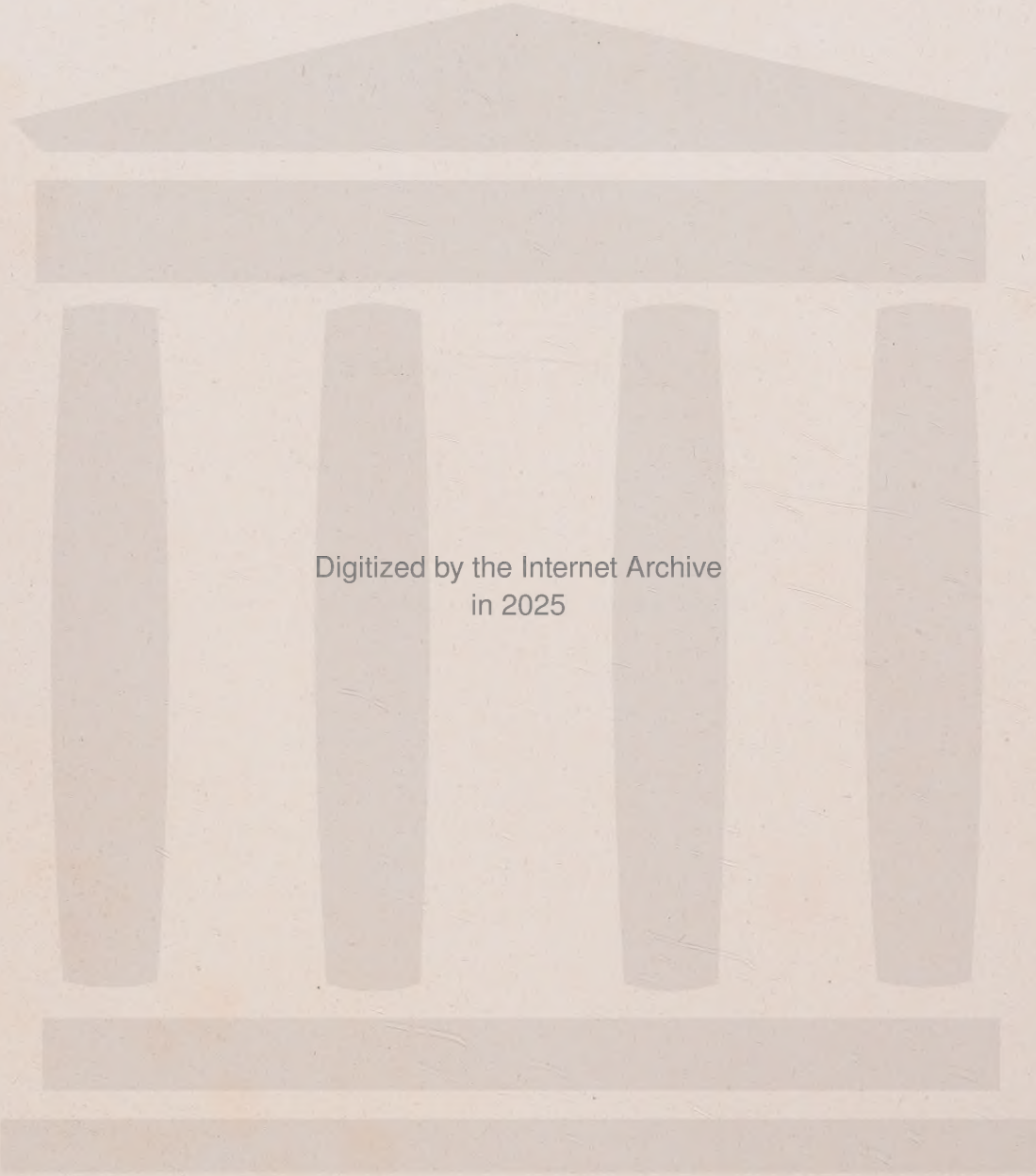
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D 6. SPECTROSCOPY AND

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Wireless Engineer, London.
Wool Record and Textile World, Bradford.
World Petroleum, New York.

Zhurnal fizicheskoi Khimii Moskva.
Zhurnal prikladnoi Khimii, Moskva.

Zhurnal technicheskoi Fiziki Moskva.
Zement-Kalk-Gips, Wiesbaden.
Zentralblatt für Chirurgie, Leipzig.
Zentralblatt für Gynäkologie, Leipzig.
Zeitschrift der Deutschen Geologischen Gesellschaft, Berlin.
Zeitschrift des Österreichischen Ingenieur-und Architekten-Vereines, Wien.
Zeitschrift für Angewandte Entomologie, Berlin.
Zeitschrift für Angewandte Mathematik und Physik, Basel.
Zeitschrift für Angewandte Mathematik und Mechanik, Berlin.
Zeitschrift für Angewandte Physik, Berlin.
Zeitschrift für Anorganische und Allgemeine Chemie, Leipzig.
Zeitschrift für Botanik, Stuttgart.
Zeitschrift für Elektrochemie Halle, Weinheim.
Zeitschrift für die gesamte experimentelle Medizin, Heidelberg.
Zeitschrift für Immunitätsforschung und experimentelle Therapie, Jena.
Zeitschrift für Kristallographie, Frankfurt am Main.
Zeitschrift für Lebensmittel-Untersuchung und-Forschung, Berlin.
Zeitschrift für Metalkunde, Stuttgart.
Zeitschrift für Morphologie und Ökologie der Tiere, Berlin.
Zeitschrift für Naturforschung (Chemistry-Biology), Stuttgart.
Zeitschrift für Naturforschung, (Physics-Phys. Chem), Stuttgart.
Zeitschrift für Parasitenkunde, Berlin.
Zeitschrift für Physikalische Chemie, Leipzig.
Zeitschrift für Physik, Berlin.
Zeitschrift für Tierernährung und Futtermittelkunde, Berlin.
Zeitschrift für vergleichende Physiologie, Berlin.
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Zeitschrift für wissenschaftliche Photographie, Photo-physik und Photochemie, Leipzig.
Zeitschrift für Zellforschung und Mikroskopische Anatomie, Berlin & Wien.
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Section IV. — Medical Microbiology and Hygiene, (1955), 8, Nos. 6, 7, 8.
Section V. — General Pathology and Pathological Anatomy, (1955), 8, Nos. 7, 8.
Section VI. — Internal Medicine, (1955), 9, Nos. 6, 7, 8.
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Part 2

A b s t r a c t s

o f

scientific and technical papers

published in Egypt and papers received from

Afghanistan, Cyprus, Iran, Iraq, Lebanon, Pakistan, Sudan and Syria



Résumés Analytiques

d e s

travaux scientifiques et techniques

publiés en Egypte et travaux reçus de

L'Afghanistan, Chypre, Iran, Irak, Liban, Pakistan, Soudan et Syrie

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Scientific and Technical Papers

published in Egypt and papers received from

Afghanistan, Cyprus, Iran, Iraq, Lebanon, Pakistan, Sudan and Syria

Astronomy and Geophysics.

1-100343 — MAHMOUD (M.K.). In Arabic (Jean's Theory). *Message of Sci.* (1954), 21, No. 4, 196-8.

Review of the theory.

1-100344 — YOUSSEF (M.S.). In Arabic (Geophysics: its problems and modern trends). *Message of Sci.* (1954), 21, No. 4, 230-2. Summary of a paper read in the general assembly of petroleum, London, 28 January, 1953.

Pure and Applied Chemistry

GENERAL CHEMISTRY

1-100345 — AHMAD (S.S.). Mechanism of catalysis and the theory of resonating electrons. *Scient., Pakistan*, (1953), 1, No. 2/3, 71-2.

A trail to explain catalysis on the basis of electron transfer systems, and correlation of this concept with types of reactivity and spectra of several elements.

1-100346 — ANTONOFF (G.). The status of our knowledge of liquids. *Scient., Pakistan*, (1953), 1, No. 2/3, 65-8.

Author's theory of liquids being aggregates that fluctuate and its correlation with fluctuations in physical constants and the interpretation of these by statistical methods are discussed. Opposition is replied to.

1-100347 — BAIG (M.M.) and ANTONOFF (G.). Kinks in properties of water at low temperatures. *Scientist, Pakistan*, (1953), 1, No. 2/3, 73.

The paper describes kinks that occur on graphs correlating temperature coefficients against temperature, and temperature density coefficients against temperature for water.

1-100348 — HANIF KHAN (M.). Molecular distillation: its application to the analysis of a wax. *Scient., Pakistan*, (1953), 1, No. 2/3, 70.

A practical illustration of the efficiency of molecular distillation in the fractionation of a wax (Ouricure wax) which cannot be handled by conventional techniques.

BIOLOGICAL CHEMISTRY

1-100349 — DELSAL (J.). Fractionnement des lipides du sérum sanguin par les solvants organiques. *Arch. Inst. Hessearek, Teheran* (1955), 9, 18-25.

Les lipides du sérum ont été séparés en deux groupes: stérides + glycérides d'une part, phosphoaminolipides d'autre part, en utilisant la différence de solubilité de ces fractions dans un mélange convenable: méthylal-méthano-éther de pétrole-eau.

1-100350 — DELSAL (J.). Les phosphatides du sérum sanguin. *Arch. Inst. Hessearek, Teheran*. (1955), 9, 36-81.

Etat actuel de la question. Bibliographie (210 références).

1-100351 — DELSAL (J.) et CHAMSY (M.). La cryo-dénaturation sélective: Méthode de purification des anatoxines tétaniques. *Arch. Inst. Hessearek, Teheran* (1955), 9, 15-17.

La pureté de l'anatoxine est supérieure à celle obtenue par précipitation par le sulphate d'ammonium. Elle ne permet pas d'insolubiliser une partie des protéines non spécifiques.

1-100352 — RAFYI (A.), CHAMSY (H.M.) et DELSAL (J.L.). Application de la méthode par diffusion d'Oudin-Oakley pour le dénombrement des antigènes tétaniques. *Arch. Inst. Hessearek, Teheran* (1955), 9, 5-14.

La technique de diffusion sur le gel d'Oudin, modifiée par Oakley permet de dénombrer ces antigènes. Elle permet également de suivre la purification des antigènes tétaniques ayant diffusé dans le milieu de culture ou culture ou extraits des crops bactériens.

INDUSTRIAL CHEMISTRY

- 1-100353 — DUNNING (J.W.). Effect of RPM on capacity and residual oil in cake when processing cottonseed meats in an expeller. *Oil & Soap, Alexandria* (1955), 2, No. 6, 181-179.
- 1-100354 — FARAG (G.). In Arabic. (Oil market this month) *Oil & Soap, Alexandria* (1955), 2, No. 6, 169-173.
A commentary on both local and foreign oils, seed, and cake markets, followed by price registrations on the 2nd of September.
- 1-100355 — HASANEIN (M.H.). In Arabic. (Organic insecticides). *Farming* (1955), 35, No. 3, 265-93.
A brief review of the chemistry and the application of known organic insecticides.
- 1-100356 — KHATTAB (S.A.). In Arabic. (The chemistry of detergents). *Message of Sci.* (1954), 21, No. 4, 186-9.
Review covering the types of detergents and methods of determination of their efficiency.
- 1-100357 — MATHUR (K.G.). The refining of vegetable oils, with special reference to groundnut oil. *Oil & Soap, Alexandria*. (1955), 2, No. 6, 178-176.
Review of alkali refining of crude vegetable oils for Vanaspati or hydrogenated oils.
- 1-100358 — MOUSTAFA (I.Y.). Aromatics from petroleum. *Trans. Min. Petrol. Ass. Egypt* (1953), 8, No. 4, 183-202.
Production of toluene from petroleum. Possibilities of production of toluene from Egyptian crude oils. Total expected toluene per year=8311 cubic metres.

1-100359 — EL-SHARKAWY (M.). In Arabic. (Oils and fats bleaching). *Oil & Soap, Alexandria* (1955), 2, No. 5, 135.

A review of the different bleaching processes, batch and continuous process, discussing different theories in bleaching vegetable oils and reporting the different bleaching agents.

1-100360 — TAHA (S.M.). Fermentation of some carbohydrate substances by *Bacillus glycolacticus* Alexandria J. agr. Res. (1955), 11, No. 2, 61-66.

Ethyl alcohol is not utilised by *B. glycolacticus* and hence cannot be considered as an intermediate product. The ability of *B. glycolacticus* to ferment starch and produce 2,3-buylene glycol, which is considered to be a good substance for the manufacture of synthetic rubber, makes the organism especially important.

Arabic summary.

1-100361 — ZEIN EL-DIN (A.). In Arabic. (Saponification and glycerin recovering). *Oil & Soap, Alexandria* (1955), 2, No. 6, 161-4.

Discussing the importance of glycerin recovery from soap kettle, using the full boiled process. Information is given on a continuous counter current process, using 4 kettles; each kettle capacity is 10 tons of oil. The author says that a recovery of 90% glycerin can be easily obtained, while the soap will be ready for further processing in four days after 4 changes have been accomplished.

Geological Sciences

1-100362 — ATTIA (M.I.). Ground water in Egypt. *Trans. Min. Petrol. Ass. Egypt* (1953), 8, No. 2, 96-116.

Description of the geological characteristics of the different regions of Egypt. Quality of water; future possibilities.

1-100363 — AWAD (G.H.), FARIS (M.I.) and ABBAS (H.L.). Contribution to the stratigraphy of the Mokattam area east of Cairo. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 106-7.
Map. Discussion of some stratigraphical problems.

1-100364 — HASSAN (Y.M.). The occurrence of *Nummilites deserti de la Harpe* in Kharga Oasis, and the age of the Lower Libyan in southern Egypt. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 114-22.

The bed is in the conformable relations with both the underlying and the overlying successions. A detailed description, discussion of affinities and distribution of the species, and consideration of the rest of the fauna from the overlying beds, suggested a very early Palaeocene age of the basal beds of the Lower Libyan and support the view of the Cretaceous-Tertiary conformity in southern Egypt.

1-100365 — KNETSCH (G.) and MAZHAR (M.A.). Traces of subsurface water migration as an indication of former climates. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 125-40.

Water and greenery were present in many spots where now utter dryness and desolation prevail. Study of this problem in the Giza Pyramids.

Manganese-solutions migration. Precipitation rings. 2 Figs.

1-100366 — MITWALLY (M.). Physiographic features of the oases of the Libyan Desert. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 143-63.

Natural depressions.

1-100367 — MOUSTAFA (S.Y.). Siluroïd fish remains from near Wadi Hoff, Egypt. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 141-2.

Probably *Bagrus* or *Synodontis*.

1-100368 — RITTMAN (A.). Some remarks on the geology of Aswan. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 35-64.

Relation between para-granite and the diorite series. Volcanism related to the dark dykes. Nubian sandstone and post-nubian tectonics. Geological history of the region.

1-100369 — SHATA (A.). An account of the geology of El Heimeimat. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 108-13.

Stratigraphy and lithology. Structure.

1-100370 — SHUKRI (N.M.). The geology of the desert east of Cairo. *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 89-105.

Stratigraphy, structure and geological history of the desert immediately east of Cairo, and a map on a scale of 1:100,00 is given. The paper discusses also some aspects of the regional geology of the Cairo-Suez district in general. Field mapping showed that the Gebel Ahmar sands and gravels, which are confused with similar sediments of post-Miocene age by some workers, are definitely pre-Marine Miocene in age. Faulting with both "Clysmic" and "Mediterranean" directions is a conspicuous feature of the area. The faults are pre-Miocene in age, but later movements along the old lines of fractures continued in post-Miocene times. Silicification and other thermal phenomena continued also in post-Miocene times.

- 1-100371 — SHUKRI (N.M.) and EL AYOUTI (M.K.). **The mineralogy of the Nubian sandstone in Aswan.** *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 65-88.

Description of 94 samples. Minerals recorded are: iron-ores, zircon, tourmaline and rutile. The formation is a typical platform (blanket) deposit, and is poor in heavy minerals. Study of the vertical and lateral variation.

2 Maps. Sections. Quantitative study.

- 1-100372 — YOUSSEF (M.I.), HASSAN (Y.M.) and ABDU (F.H.). **A faunule with *Nummulites deserti* from Kossier Area.** *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 123-4.

The discovery of the present faunule provides evidence strong enough to settle this long standing controversy by confirming the Palaeocene age of the bed in question. The bed can further be classed as Lower Palaeocene because a similar horizon with *Nummulites deserti*, in Kharga Oasis, has been dated by Hassan (1953) as strictly Lower Palaeocene.

Biological Sciences

- 1-100373 — ALLOUSE (B.E.). **A bibliography on the vertebrate fauna of Iraq and neighbouring countries. III. Reptiles and Amphibians.** *Iraq Nat. Hist. Mus. Publ.* (1955), No. 5, 1-24.

List of about 200 references.. geographical index. Summary in Arabic,

- 1-100374 — ALLOUSE (B.E.). **A bibliography on the vertebrate fauna of Iraq and neighbouring countries. IV. Fishes.** *Iraq. Nat. Hist. Museum* (1955), No. 7, 3-29.

List of about 250 references. Geographical index.

- 1-100375 — CHAUDRY (M.T.). **Physico-chemical investigations on the possible role of hyponitrous acid in nitrogen fixation.** *Scient., Pakistan* (1953), 1, No. 2/3, 69.

This acid is not utilised by bacteria. Its effect on the N-fixing system of Azobacter appears to be as enzyme inhibitor. The threshold concentration of that acid appears to be about 10-5 molar.

- 1-100376 — EZZ EL-DIN (I.). **In Arabic.** (Cytological researches in fruits). *Farming* (1955), 35, No. 3, 244-58.

Summary of the results obtained by different U.S. research centers concerning the cytological constituent of certain fruits, and factors affecting their structure.

- 1-100377 — EL-HATTAB (H.E.-S.). **In Arabic** (Plant Ecology) *Farming* (1955), 35, No. 3, 209-22.

A summary of the various environments of plants.

- 1-100378 — HUSSAINY (A.H.). **In Arabic.** (Teaching of Zoology). *Message of Sci.* (1954), 21, No. 4, 199-216.

Investigation, of the different methods used in teaching Zoology in secondary schools, with two examples.

- 1-100379 — EL-IBIARY (H.M.). **Estimation of the number of segregating loci in some cases of quantitative inheritance.** *Alexandria-J. agr. Res.* (1955), 11, No. 2, 1-6.

Report on some equations which are derived for certain cases of quantitative inheritance. Abstract in Arabic.

- 1-100380 — KHOURY (R.). **Kaff Maryam (La Rose de Jéricho).** *Bull. Inst. Désert Egypte* (1953), 3, No. 2, 30-4.

Considérations historiques et botaniques.

Il existe trois Roses de Jéricho, toutes trois vraies.

1) La Rose de Jéricho de l'Ecriture, qui est le rhododendron.

2) Celle qui figure sur le blason des croisés: *Asteriscus pygmaeus*.

3) La Rose de Jéricho des "attarine", *Anastatica hieroantica*.

- 1-100381 — MIGAHID (A.M.) and ALI (S.M.). **Osmotic pressuer of plants of different ecological types.** *Bull. Inst. Désert, Egypte* (1953), 3, No. 2, 9-17.

The results obtained showed that the osmotic pressures of mesophytes are significantly lower than those of xerophytes, the latter lower than those of halophytes. For the mesophytes studied the osmotic pressure ranged from 8.36-10.19 atmospheres, for the xerophytes the range was 13.35-20.17, while for the ha-

lophytes the range was 31.93-54.47. There is no overlapping of the ranges of the three groups. Analysis of variance showed that there are highly significant differences between different species of the same ecological group. The values of osmotic pressures of halophytes are highest, whether they develop in marshy places or on relatively dry soil. This indicates that the salinity factor is more important than the water factor in determining the osmotic pressure of plants.

- 1-100382 — MINESSY (F.A.). **Sex expression in citrus flowers.** *Alexandria J. agr. Res.* (1955), 11, No. 1, 37-41.

The terms "male flowers" and "staminate flowers" are used to designate flowers whose pistils are underdeveloped or abortive. The data given, suggest that the tendency to pistil abortion may be inherited. The magnitude of its expression, however, would depend on the physiological condition of the tree. — Abstract in Arabic.

- 1-100383 — MOSTAFA (M.M.) and MAHMOUD (M.Z.). **Studies on the bacterial root nodules of *Zygophyllaceae*.** *Bull. Inst. Désert, Egypte* (1953), 3, No. 2, 18-29.

The two zygothylaceous bacterial isolates and *Arachis rhizobium* seem to be physiologically distinct, as their fermentation characteristics differ in some aspects. Their physiological identities have been further confirmed by the previous findings (Mostafa and Mahmoud 1951) of the intimate specificity between each bacterial strain and the plant from which it has been isolated.

- 1-100384 — EL-MOTAZZ BELLAH (M.). **In Arabic** (Hormones and their utilisation in vegetables). *Egypt. agr. Rev.* (1955), 33, No. 1, 45-51.

A review on the effect of hormones on the physiology of vegetable plants.

- 1-100385 — MUNTASSIR (A.H.). **In Arabic** (Teaching of Botany). *Message of Sci.* (1954), 21, No. 4, 217-27.

A review, discussing the problems of teaching of botany that deals with the school, curricula, the teacher, books and references and techniques.

- 1-100386 — QURESHI (M.R.). **A field key to the identification of fishes. I. Elasmobranchii (Selachioidei).** *Scient., Pakistan*, (1953), 1, No. 2/3, 37-54.

Complete identification and descriptive schemes for sharks in Pakistan, illustrated with figures.

- 1-100387 — TOOSY (M.H.). **Protection against biological hazard of atomic energy. II. Effect of sex hormones on beta-irradiated skin.** *Medicus. Karachi*, (1955), 9, No. 6, 197-206.

A single dose of 9720 r from strontium 90 applicator 90 mc. strength, at the rate of 81 per second delivered to circular areas (12.7mm diameter) of the dorsal skin of closely inbred Swiss mice, induced sharply localised ulcers. These appear about the 10th day, half of the animals show them by the 13th day, and all of the animals on or about the 16th day.

- 1-100388 — TOOSY (M.H.) and JAYNE (E.). **Protection against biological hazards of atomic energy. I. A new ulcer-technique.** *Medicus. Karachi*, (1955), 9, No. 5, 164-171.

Circular areas of 12.7 mm diameter of dorsal skins of closely inbred Swiss mice of 4 to 5 months old were exposed to 1in6le

and repeated doses of beta-rays from a strontium 90 applicator (Tracerlab 90 mc.). To ten groups of animals (20 each) repeated doses of 324, 648, 1296, and 1620 roentgen units were given at biweekly intervals. Four batches of 20 each received a single dose of 9720r. Changes in the skin were recorded periodically in each case.

Medical Sciences

GENERALITIES

- 1-100386 — BURRIDGE (W.). **Unani medicine, a European system.** *Medicus. Karachi*, (1955), 9, No. 6, 207-11.
Historical considerations.

ANATOMY

- 1-100390 — ABDEL-HALIM (S.). **Osteogenesis imperfecta, with a case report.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1955), 20, No. 1&2, 62-5.

The condition osteogenesis imperfecta is reviewed, and one case is reported.

- 1-100391 — KAMEL (A.). **Teratoma of orbit.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 195-201.

A case of teratoma of the orbit in a child of 2 days. The tumour was excised and its nature proved histo-pathologically.
(Summary in Arabic, English, and French).

- 1-100392 — SHAH (M.A.) and SHAH (M.). **A note on double metopism.** *Medicus. Karachi*, (1955), 9, No. 5, 172-173.
Report of 8 cases.

PHARMACOLOGY

- 1-100393 — ALLY (M.M.). **Studies on the hypnotic effect of *Rauwolfia serpentina*.** *Medicus. Karachi*, (1954), 9, No. 2, 37-49.

In rats a dose of 5 mg./kg. produced a mild hypnotic effect but a larger dose was necessary to produce a satisfactory hypnotic effect. In cats, on the other hand, a dose of 0.25 mg./kg. produced a mild hypnotic effect, and a dose of 1 mg./kg. produced a narcotic effect. Of the different samples of *Rauwolfia* resin collected from Bengal, Bahar, and U. P., the sample from Bengal produced a stronger hypnotic effect than the samples from Behar and U. P. Of these samples the one from U. P. produced the least hypnotic effect. The Behar sample in its hypnotic effect was just a little weaker than that of the Bengal.

- 1-100394 — ROHAYEM (H.). **The action of quaternary ammonium compounds on the nerve centres of the dog.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 75-80.

Tetramethyl ammonium iodide "TMA" and tetraethyl ammonium chloride "TEA" were investigated; the former has a weak nicotine-like action on the C.N.S. of the dog, resulting in initial stimulation followed by depression. The autonomic centres are depressed. TEA has a feeble peripheral neuro-muscular blocking action, not to be compared with d-tubocurarine.

ENDOCRINOLOGY

- 1-100395 — SOLIMAN (F.A.), ZAHARAN (M.), SAMEH (M.) and GHANEM (Y.S.). **The levels of thyrotropic and gonadotropic hormones in the blood of mature and immature female rabbits.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1955), 20, No. 1&2, 54-8.

The thyrotropic and gonadotropic hormone levels in the blood of 3 immature, 3 oestrous, and 4 pseudopregnant rabbits were determined with the chick assay method. The thyrotropic hor-

mone level was significantly higher in oestrous rabbits than in pseudopregnant and immature ones. The gonadotropic hormone level of oestrous and pseudopregnant rabbits was also significantly higher than that of immature ones. The difference between the gonadotropic hormone levels of oestrous and pseudopregnant rabbits was not significant.

INTERNAL MEDICINE

- 1-100396 — ABBOUD (M.A.), EL-MAZNY (A.) and ALFY (O.). **Situs inversus Report on six cases.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 69-74.

During a period of 30 months, 75 cases of congenital heart disease were studied. Situs inversus was met with in 6 cases (8% of total cases). Of these 6 cases 3 (50%) were uncomplicated, 2 (33.3%) were associated with cyanosis, and one (16.6%) was a case of laevocardia. Of the three uncomplicated cases, one had atelctatic bronchiectasis of the left lower lobe, and another showed signs of early pulmonary fibrosis. All six cases are still living.

- 1-100397 — GOHAR (M.A.). **The basis of the phenomena of allergy.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 27-43.
General exposition.

- 1-100398 — KHALIL ABDEL KHALEK (A.) and ABDIN (Z.H.). **Some aspects of poliomyelitis in Egypt.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1954), 20, No. 1&2, 1-10.

Review of the epidemiology, symptomatology, and notes on the prevention of poliomyelitis in Egypt.

- 1-100399 — TAHA (S.), DIMMETTE (R.M.) and RAGHEB (M.). **Liver function tests and pathology in a case of target cell anaemia.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1955), 20, No. 1&2, 59-61.

Record of a case of haemolytic jaundice in which parenchymatous hepatic disease is excluded as cause of jaundice by means of liver function tests and biopsy.

TROPICAL DISEASES and PARASITOLOGY

- 1-100401 — NEEL (R.), TASLIMI (H.) et EFTEKHARI (M.). **Valeur pratique comparée des réactions d'agglutination, de coagulation directe, d'hémagglutination polysidique et protéinique pour le diagnostic de la peste.** *Arch. Inst. Hessaek., Teheran* (1955), 9, 85-107.

Tableaux comparatifs.

Bibliographie (57 références).

- 1-100402 — TALAAT (S.M.). **Bilharzia ova in the sputum.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 66-8.

Schistosoma ova were found in the sputa of twelve out of twenty patients complaining of cough and expectoration and showing evidence of schistosomiasis. A technique of sputum examination is described. Other investigations and findings are discussed.

- 1-100403 — QUADRATULLAH (MOHD). **Coprid beetles in the human gut.** *Medicus. Karachi*, (1955), 9, No. 6, 212-5.

A case history of infection by the coprid beetle is given. The description of the beetles is discussed. The mode of infection is dealt with. The pathological lesion is briefly mentioned, and the line of treatment suggested.

- 1-100404 — RAFYI (A.) et MAGHAMI (G.). **Sur la présence de Q Fever en Iran.** *Arch. Inst. Hessek., Teheran* (1955), 9, 33-15. L'A a trouvé des réactions sérologiques positives avec le sang des dromadaires, veaux, moutons et chèvres. Il est fort probable que l'infection existe chez l'homme et d'autres recherches peuvent le prouver d'un jour à l'autre. Le sérum de 267 animaux examinés nous a montré une infection de 43,08 % à l'égard de Q fever. L'infection paraît être plus abondante du côté ouest de l'Iran (Kermanschah). On n'a pas pu isoler le *R. burneti* en inoculant divers lots de tiques que l'on trouve aux villages avoisinant notre Institut.

PAEDIATRICS

- 1-100405 — ABBASY (A.S.). **Hormonal therapy in infantile wasting.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 251-261.

Food intolerance is the main problem in the management of infantile wasting. Methylandrostenediol proved to be the best and to succeed even when cortisone and ACTH failed. The latter two hormones are also useful in many cases.

- 1-100406 — ABOUD (A.) and EL-HIFNY (A.). **Dermatomyositis: Case report of a child.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 320-6.

The case is reported and its treatment with corticotrophin and testosterone described.

- 1-100407 — ABDIN (Z.H.) and ABDIN (F.H.). **Fielder's myocarditis, with report of 5 cases in children.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1955), 20, No. 1&2, 42-53.

Clinical and pathological review of cases of isolated myocarditis, and discussion of treatment and prognosis. A.A treated three cases with aminophyllin, streptomycin, and penicillin with good results.

- 1-100408 — ANWAR (M.), GREIS (M.) and OMAR (M.S.). **Diphtheria in Egypt.** *J. Egypt Public Health Ass.* (1954), No. 3, 43-74.

A survey of the history, geographical distribution, incidence, mortality, season, types of organism, mass immunisation, and prophylaxis of diphtheria in Egypt.

- 1-100409 — BADR (M.K.). **The value of eosinophilic count and Thorn test as a measure of suprarenal function in toxic dyspepsia.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 271-84.

The theory of suprarenal insufficiency as a cause of intoxication in infantile dyspepsia is not correct, although those glands are hyperactive. Corticoid administration in toxic dyspepsia is of no real value, while potassium administration was found to be of paramount importance.

- 1-100410 — BADR EL-DIN (K.). **Management of food intolerance in infantile wasting.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 307-14.

When aureomycin was included in the diet of wasted infants in a daily dose of 100mg, the limit of tolerance was much increased, appetite markedly improved, and infants steadily increased in weight.

- 1-100411 — DIWANI (M.) and MOUKHTAR (N.A.). **Fallot's triad.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 324-36.

Description of case of this very rare type of congenital heart disease.

- 1-100412 — MAZNI (A.) and ABULFADL (M.A.M.). **Studies on the blood chemistry of newly born infants.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 292-306.

Icterus neonatorum is the manifest jaundice that occurs in 15-100% of new born infants, and, is a process that rarely lasts more than 2 weeks. Analyses of blood for bilirubin, phosphatase (alkaline and acid), phosphates and potassium were carried out, and from their results the conclusion was drawn that this state cannot be explained on the simple hypothesis of red cell destruction alone, and that liver involvement is not improbable.

- 1-100413 — NOUR EL-DIN (G.) and DAWOOD (M.). **Recent advances in the treatment of Enterobius infection in childhood. The use of antibiotics in comparison with other drugs.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 262-70.

The value of terramycin, aureomycin, chloramphenicol, fumagillin, and erythromycin in the treatment of Enterobius was examined. Some disinfectants, such as hexgiresorcinol, hetrazan, thymol, entacyl, acranil, and members of the diphenyl and dye groups were also tried and their results compared.

- 1-100414 — SIBAIE (B.) and MOUKHTAR (N.). **Progeria: Case report.** *Gaz. Egypt. paediat. Ass.* (1954), 2, No. 3, 337-49.

The only unusual feature in this case is the symmetrical fracture of both humeri which was discovered accidentally during clinical examination. Treatment by protandren (male hormone with action mainly anabolic) is tried.

NEUROLOGY

- 1-100415 — BARRADA (Y.), GUINENA (Y.), ABD EL NABY (S.) and TAHER (Y.). **Congenital and familial cerebrotocerebellar diplegia.** *Gaz. Egypt. paediat. Ass.* (1955), 2, No. 3, 315-20. Three siblings suffering from that disease are reported, their peculiar features described, and the significance of the distribution of the lesion discussed.

- 1-100416 — TALAAT (S.M.). **Stellate ganglion block in Bell's palsy—Report on 29 cases.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 89-90.

Treatment of 29 cases of Bell's palsy by ganglion block is reported. This form of therapy has given satisfactory results, especially when the treatment is instituted early, the patient then having a better chance of a quick and complete recovery.

SURGERY

- 1-100417 — EL-ZORKANY (K.). **Contact pressure arthrodesis.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 91-2. Report on results obtained with this method in 15 cases; 13 TB of the knee joint, one fracture of tibial condyles, one infective arthritis.

OPHTHALMOLOGY

- 1-100418 — ABOUD (I.A.). **The modern trends in the treatment of ocular allergy.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 45-51.

Notes about the prophylaxis, specific hyposensitisation or desensitisation, heterospecific desensitisation, and symptomatic therapy.

- 1-100419 — ABOUD (I.A.). **The effect of cortisone in cases of kerato-conjunctivitis.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 117-9.

Epidemic kerato-conjunctivitis last summer. Most of the cases occurred in patients from outside Cairo. At first the cases were treated with terramycin drops and ointment every 2 hours, and daily painting with silver nitrate 2%. Cortisone was not used except late after the appearance of the corneal infiltrates, for fear of flaring the condition up. Its use caused great relief, but the cases took 1-1½ month to heal. In the last cases cortisone was used early, just after the appearance of the corneal infiltrates, and those cases took only 10 days to heal. (Summary in Arabic, English, and French).

- 1-100420 — ABDIN (G.). **Comments on the treatment of trachoma by electrocoagulation.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 105-8.

The author describes the treatment of trachoma by electrocoagulation as devised by Prof. Chams of Iran, and gives a survey of the results he obtained with this method, and the applicability of the method in Egypt.

(Summary in Arabic, English and French).

- 1-100421 — AHMAD (F.). **A modification of De Wecker's scissors.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 243-4.

Scissors to cut the iris *in situ*.

- 1-100422 — ANWAR (M.). **A few remarks about squint and squint operations.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 185-93. The author stresses the importance of early treatment of squint, especially after the introduction of the 3dimensional pictures and the probability that binocular vision, in the future, will be as important or even more important than any other sense.

(Summary in Arabic, English, and French).

- 1-100423 — ATTIAH (M.A.H.) and BARRADAH (A.E.). **A further contribution on contracted socket repair and conjunctivoplasty by amnion grafts.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 206-9.

The authors modified their technique of preparing the amnion grafts in the following manner: the amnion is kept in a 20% solution of penicillin-streptomycin in the refrigerator for 48 hours at 4°C, so that the mesothelium of the amnion can be easily separated from the underlying tissues. If the amnion is kept for more than 48 hours, its colour changes from whitish to yellowish-green. The amnion graft was used in cases of contracted socket, cases of petryguim, and case of symblepharon, with success. (Summary in Arabic, English, and French).

- 1-100424 — AWAD (A.M.). **Cavernous haemangiomas of orbit.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 203-6.

A described haemangiomas of the orbit. He cited a case successfully removed surgically.

(Summary in Arabic, English, and French).

- 1-100425 — AWAD (A.M.). **Axial ametropia and length of eye.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 245-8.

The extent of axial elongation or shortening of the eye corresponding to the degree of ametropia is most easily calculated by the use of Newton's formula $II/12 = f/f2$. A simplified reduced schematic eye, approximating closely to Gullstrand's schematic eye, is used as a basis for the calculation. Illustrative examples are appended.

(Summary in Arabic, English, and French).

- 1-100426 — EL BAYADI (G.). **Clinical observations on the effect of gantrisin in trachoma.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 211-21.

Results of treating trachoma with a soluble sulphonamide, named Gantrisin. It was used locally, 15% drops every 2 hours during the waking hours. Parenteral administration was not necessary except in cases of trachomatous keratitis.

Cases of TI, showed resolution in 2-3 months. In cases in which large follicles are present, mechanical treatment had to be done, followed by the gantrisin local treatment for 2 months. In all cases treated with gantrisin, scarring was less than that noted in cases treated with the irritant chemicals.

(Summary in Arabic, English, and French).

- 1-100427 — GOHAR (M.A.). **Glaucomato-cyclitic crisis.** *Bull. ophthalm. Soc. Egypt* (1955), 47, No. 51, 151-3.

The signs of Posner-Schlossman's syndrome are the following: 1. Very high tension. 2. Normal A.C. 3. Slight dilatation of the pupil. 4. Some K.P.'s, and 5. No loss of vision or visual field. A case is described. The treatment given was cortisone ointment and drops every 2 hours, 0.5% pilocarpine drops, and parenteral penicillin. The condition subsided completely in 12 days.

(Summary in Arabic, English, and French).

- 1-100429 — IBRAHIM (A.H.). **New operation for reconstruction of lower lid.** *Bull. ophthalm. Soc. Egypt* (1955), 47, No. 51, 87-9.

The author describes a new operation for the reconstruction of the lower lid. He utilises a piece of the healthy upper tarsus to replace the tarsus of the lower lid, a piece of the conjunctiva of the healthy upper fornix to replace the lower fornix, and a gliding or pedicle skin graft to replace the skin. The operation is described in detail.

(Summary in Arabic, English, and French).

- 1-100430 — IBRAHIM (A.H.). **Modification of Wheeler's operation.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 75-7.

In cases of slight and moderate contraction of the socket, the author advises the following operation for its repair: The conjunctiva is incised in the middle and dissected up and down, freeing it from the underlying scar tissue. The upper and lower fornices are then made by three Snellen's sutures passed up and down. The bare gap left in the centre of the socket is covered either by an epidermal graft, an amniotic membrane graft, a peritoneum graft, or by a mucosal graft taken from the lip. The first dressing is done after 10 days, or even later.

(Summary in Arabic, English, and French).

- 1-100431 — IBRAHIM (A.H.). **Modification in position of iris inclusion.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 149-50.

In doing the operation of iridencleisis, the author advises incarcerating the inner pillar instead of the outer. He incarcerates it at 2 o'clock in the right eye and at 10 o'clock in the left. This modification, in his opinion, facilitates extraction of the lens, if cataract later on develops, and the extraction will not interfere with the filtering cicatrix.

(Summary in Arabic, English, and French).

- 1-100432 — IBRAHIM (A.H.). **Hyaline degeneration of the cornea.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 121-4.

10 cases of corneal degeneration that may be, in the A. is opinion, related to Fuchs' corneal dystrophy. Early cases show a small, sharply defined, round central haze of the cornea, that is covered by lustrous epithelium. Late cases resemble dense leucomas. No vascularisation or any evidence of inflammation was noticed. The condition is usually unilateral, and all the cases were male, above 40 years of age. Six of the cases work as boat markers and four are fishermen. The disease is rather familial, for six of the cases occurred in three families, two in each.

(Summary in Arabic, English, and French).

- 1-100433 — IBRAHIM (F.G.). **Two cases of persistent hyaloid artery.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 41, 183-4.

The author described 2 cases of persistent hyaloid artery in which the vessel in both cases was full of blood.

(Summary in Arabic, English, and French).

- 1-100434 — KAMEL (A.). **Traumatic implantation cyst of A.C.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 227-9.

A case of traumatic implantation cyst of the A.C., the origin of whose lining was most probably corneal. The cyst was successfully removed by an iridectomy and scraping of the back of the cornea.

(Summary in Arabic, English, and French).

- 1-100435 — KAMEL (A.). **A case of paralysis of convergence.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 231-42.

An interesting case of paralysis of convergence accompanied by a slight paresis of the internal rectus and the levator palpebrae superioris in one eye. The site of the lesion is supposed to be in the nucleus of Perlia with a slight extension to the centres of the levator palpebrae superioris and internal rectus, and the condition is most probably caused by encephalitis lethargica. The differential diagnosis and treatment are discussed.

(Summary in Arabic, English, and French).

- 1-100437 — KAMEL (S.). **Massive hyaline degeneration of the conjunctiva.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 91-7. The author described hyaline degeneration of the conjunctiva in detail. He then described 2 cases of massive hyalinated degeneration in which biopsy was done. (Summary in Arabic, English and French).
- 1-100438 — KAMEL (S.). **Cysts of lacrimal gland.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 81-5. The author described cysts of the lacrimal gland, and cited a case in which the cyst was excised examined histopathologically. (Summary in Arabic, English and French).
- 1-100439 — KAMEL (S.). **Bowen's disease or intra-epithelial epithelioma.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 110-5. Bowen's disease is a rare locally malignant tumour that may affect the cornea, the conjunctiva, or the skin of the lids. Though in most cases it is locally malignant, yet it is capable of metastasising. Its best treatment is excision if possible, or if that entails a great damage to the eye, then enucleation is indicated. The author described a case, which is the first case reported in Egypt. The eye was examined histopathologically. (Summary in Arabic, English and French).
- 1-100440 — LABIB (M.A.). **Rectangular sclerectomy in the treatment of glaucoma.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 131-47. The operation advised is summarised: a conjunctival flap is done up, then an incision in the sclera 4 mm. long is made 2 mm. away from the limbus and parallel to it. The incision is deepened until the sclera is cut. If iris prolapses, a two-snip basal iridectomy is done. The sclera is then perpendicularly incised on either side of the first incision for 2 mm. towards the limbus. Then the rectangle of sclera is cut off by the scissors. The conjunctiva is finally sutured and atropine instilled. Daily dressing is done with atropin; stitches are removed on the 10th day and bandage on the 11th. Twenty cases of glaucoma thus operated are described. (Summary in Arabic, English and French).
- 1-100441 — LABIB (M.A.). **Management of after-cataract.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 167-72. After-cataracts, if they are thin, are treated by discission. If dense, they are better treated by an operation the author calls capsulectomy-iridotomy. A horizontal incision is made in the after-cataract with a Graefe knife, then 2 vertical incisions are made at both of the sides with the scissors, and then the whole piece is cut off and removed. Finally a vertical iridotomy is done in the drawn up pupil. Three cases thus treated are described. (Summary in Arabic, English and French).
- 1-100442 — LABIB (M.A.). **Lateral section in cataract surgery.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 159-66. The question of lens extraction in cases of glaucoma successfully controlled by an external filtering operation, has long been a problem. It is certainly unwise to interfere with the successful filtering scar during the extraction. For this reason, the author advises extraction of the lens through a lateral incision in the limbus. The operation is described in detail, and 6 cases thus treated are cited. (Summary in Arabic, English and French).
- 1-100443 — LINDNER (K.). **Some causes of temporary and permanent dysfunction of the optic nerve.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 1-5. Discussion.
- 1-100444 — MANKARIOS (A.). **A case of diffuse burn of the cornea.** *Bull. ophthalm. Soc. Egypt* (1954), No. 51, 125-6. A case of severe burn of the cornea caused by a red hot iron bar. The whole epithelium sloughed. The case was treated with penicillin injections, atropine, sedative antiseptic, cortisone and noviform, and vitamin A ointments and bandaging. In 7 days complete healing occurred with no opacities left behind and 6/9 vision. (Summary in Arabic, English and French).
- 1-100445 — EL MOFTI (A.M.) and EL GAMMAL (Y.A.R.). **Allergic manifestations of eye lids with reference to twenty cases studied.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 53-74. Urticaria, erythema multiforme, dermatitis. Allergy due to physical factors. (Summary in Arabic).
- 1-100446 — NASHED (A.). **Marfan's syndrome.** *Bull. ophthalm. Soc. Egypt* (1955), 47, No. 51, 173-8. Marfan's syndrome is described in detail and an illustrative case is cited. (Summary in Arabic, English and French).
- 1-100447 — NASHED (A.). **Oedema of the macula during foudain treatment.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 179-81. A case of oedema of the macula that developed during the treatment of bilharzia with foudain is described. The condition subsided and vision returned to normal after stopping the foudain. (Summary in Arabic, English and French).
- 1-100448 — SPEATH (E.B.). **Reoperations in glaucoma.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 7-26. General exposition.
- 1-100449 — WAHBA (E.A.). **Herpetic ophthalmia.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 99-104. A characteristic type of ophthalmia that affects children between the ages of 4 months and 2 1/2 years is described. It is characterised by a membranous kerato-conjunctivitis, herpetic eruption of the face, hyperpyrexia, insomnia, and corneal ulcerations. The author advises rapid treatment and giving chloromycetin to every case. (Summary in Arabic, English and French).
- 1-100450 — YOUSSEF (O.M.). **Cataract surgery with special reference to suction extraction.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 55-8.
- 1-100451 — YOUSSEF (O.M.). **Diathermy puncture in the treatment of glaucoma.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 127-9. The author performed this operation for the treatment of cases of glaucoma (7 chronic and 8 absolute), using a diathermy current (emanated by a hyfrecator), instead of the galvano-cautery. The cases were all recently done and were followed only for six months. The tension was brought to normal in 11 of the cases, including some absolute glaucomas. (Summary in Arabic, English and French).
- 1-100452 — ZAKARIA (T.). **Contracted socket.** *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 79-80. To widen sockets which are moderately contracted, a transparent device made of methyl methacrylate resin is used. The largest size which can be introduced in the socket but cannot be retained is put, and a pressure bandage is applied. After a few days a larger one is used, and so on until the socket is wide enough to retain the proper sized prosthesis. (Summary in Arabic, English and French).

DERMATOLOGY

- 1-100453 — ALI (A.) and ROAIH (M.F.A.). **Acne of menstruation.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 30-41. Report on the results obtained with Geber's method of treatment in cases of menstrual acne. Results are satisfactory in properly selected cases of truly allergic origin.
- 1-100454 — ZAWAHRY (M. El.). **Congenital skin anomalies Report on 12 cases.** *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 81-4. With pictures.

RADIOLOGY

- 1-100455 — MAHFOUZ (M.) and DEEB (A.A.E.). Gas in the intervertebral discs. *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 93-5.

The radiological picture is that of an area of decreased density, more easily visible in the lateral view, which is often irregular in shape, and may be faintly and poorly outlined. It is located in various areas of the intervertebral disc, but is most common in the central portion. If there is asymmetrical narrowing of the disc, the decreased density is often found at the narrowest portion which may not be centrally located.

TUBERCULOSIS

- 1-100456 — AWAN (A.H.), HAZARIKA (C.N.) and AWAN (A.K.). Epidemiology of tuberculosis, with a special reference to the Indo-Pakistan subcontinent. *Medicus. Karachi* (1954), 9, No. 2, 54-62.

Natural history of the disease. Statistics. Biological gradient of disease.

- 1-100457 — AWAN (A.H.) and HAZARIKA (C.N.) and AWAN (A.K.). Epidemiology of tuberculosis with special reference to the Indo-Pakistan subcontinent. (Continued from the previous issue). *Medicus. Karachi*, (1955), 9, No. 5, 174-182.

Factors determining the distribution. Statistics.

- 1-100458 — AWAN (A.H.), HAZARIKA (C.N.) and AWAN (A.D.). Epidemiology of tuberculosis, with special reference to Indo-Pakistan subcontinent. *Medicus, Karachi*, (1955), 9, No. 6, 216-23.

(Concluded from the previous issue).

Environment. Principles of a programme for the control of tuberculosis. Bibliography (74 references).

CANCER and TUMOURS

- 1-100459 — ABDIN (G.). Epithelioma of outer canthus in a case of xeroderma pigmentosum. *Bull. ophthalm. Soc. Egypt* (1954), 47, No. 51, 223-6.

The author described in detail xeroderma pigmentosum and its eye complications, and cited a case showing an epithelioma of the outer canthus region that was partially excised and the rest treated with radium.

(Summary in Arabic, English and French).

- 1-100460 — GRACE (H.K.). The incidence of malignant growths in the population of Egypt. *Gaz. Kasr-el-Ainy Fac. Med. Cairo*, (1955), 20, No. 1&2, 11-29.

The incidence of malignant growths in 11312 hospital cases in Egypt is reviewed. Statistics on the incidence of malignant tumours in the general population are not available; the figures mentioned above do, however, convey useful information for comparison with figures in other countries.

- 1-100461 — HUSAIN (I.). Gonioscopic observations in a case of ring-melanosarcoma of the ciliary body. *Medicus. Karachi* (1954), 9, No. 2, 50-53.

A case of ring melanosarcoma of the ciliary body is described. Gonioscopic observations had been made early in the course of the disease, but the diagnosis was made only after the growth had extended to the posterior surface of the cornea.

- 1-100463 — MINAISSY (A.). Haemangioma of the right humerus. *Gaz. Kasr-el-Ainy Fac. Med. Cairo* (1955), 20, No. 1&2, 85-8.

A case of haemangioma of the humerus is reported. The rarity of the condition in the long bones of the extremities is emphasised and attention is drawn to the extensive size of the haemangioma in this case. The possible lines of treatment in such a case are discussed.

PUBLIC HEALTH

- 1-100464 — FLOYD (T.M.). Salmonellosis in dogs. Part I. Survey. *J. Egypt Public Health Ass.* (1954), 29, No. 3, 75-89.

A review of the literature covering about 50 publications on the subject.

- 1-100465 — FLOYD (T.M.). Salmonellosis in dogs. II. Infections in Egypt. *J. Egypt Public Health Assoc.* (1954), 29, No. 3, 90-2.

One thousand impounded dogs in Cairo were cultured for the presence of *Salmonella* organisms. Three only were found to be infected. Two harboured *S. typhi*, *murium*, and one was excreting a group D *Salmonella*.

- 1-100466 — ZEGHEYER (A.). In Arabic (The nutritive value of vegetable crops). *Quart. Mag. Iraq. Agric.* (1955), 10, No. 1, 6.

The important role played by vegetables in human diet and nutrition. The effect of vegetables on the boy's general health, formation, growth, and regulation of processes. A list of nutrients essential for proper nutrition, with another list containing the percentage of vitamins and minerals found in all vegetables.

Engineering

- 1-100467 — PITHAWALLA (M.B.). The problem of Pakistan Railways. *Scient., Pakistan*, (1953), 1, No. 2, 35-12.

Areas neglected are reviewed. Urgency for new constructions in Sind, Eastern Pakistan, and other areas is illustrated. Organisation technical and economic measures for such a programme are discussed.

- 1-100468 — TAITT (G.S.). The economic significance of petroleum in Egypt. *Trans. Min. Petrol. Ass. Egypt* (1953), 8, No. 2, 77-95.

Statistics. Future developments.

- 1-100469 — EL ZOGHBY (M.E.E.D.). The mineral resources of Egypt. *Trans. Min. Petrol. Ass. Egypt* (1953), 8, No. 3, 137-58.

History. Mines working at present. Reserves. Statistics.

Agriculture and Veterinary Sciences

GENERALITIES

- 1-100470 — Agricultural industries in Pakistan. *Scient., Pakistan*, (1953), 1, No. 1/2, 1-2.

An editorial reviewing sugar cane growing tobacco, shell-fishing, lac production, medicinal herbs, and silk-worm breeding in Pakistan.

- 1-100471 — ABD EL-AKHER (M.). In Arabic (Chemical value of farm waste matter). *Farming* (1955), 35, No. 3, 259-64.

Chemurgy at present, and its expected future, with proposals for its application in the Egyptian fields.

- 1-100472 — ABD EL HAFEZ (O.). In Arabic (The Egyptian cotton in outside markets). *Egypt. agr. Rev.* (1955), 33, No. 1, 8-32.

A lecture on the economical status of the Egyptian cotton in the international market.

1-100473 — IBRAHIM (A.A.). A new design for the farmer's oven. *Alexandria J. agr. Res.* (1955), 11, No. 2, 89-92. The new model and design proved to be satisfactory. There is a good draft resulting from the addition of a six-inch chimney which is four feet higher than the roof. A damper prevents heat escaping from the chimney. There is a saving of 20% in fuel consumption.

1-100474 — KARAM (H.A.). Estimating variance and covariance components in some nonorthogonal data. *Alexandria J. agr. Res.* (1955), 11, No. 2, 68-74.

The method explained here was described by Henderson (1933). Karam *et al.* (1953) used it on data with more than two-way classification. The various sums of squares are computed, ignoring the nonorthogonality. The expected values in terms of the variances for each sum of squares are found and equated to their computed value. Then the resulting equations are solved for the variances needed. An illustrative example is presented. (Arabic summary.)

1-100475 — KOTBY (F.A.). In Arabic (The use of radio-isotopes in agriculture). *Farming* (1955), 35, No. 3, 223-9. Gathered information on the utilisation of radio-isotopes in agriculture.

1-100476 — EL-SARKY (M.Y.). In Arabic (Egg production in Egypt). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 42-5. The conditions responsible for the deterioration of egg production in Egypt, and proposals for improving these conditions.

1-100477 — SIDKY (A.). In Arabic (Stimulation of demand consumption). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 1-6. A lecture given by the Minister of Agriculture explaining the governmental policy towards increasing the demand and consumption of agricultural crops in Egypt.

SOIL SCIENCE

1-100478 — AL-GHATA (BK.). In Arabic (Salty lands reclamation). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 8.

A full text of a lecture broadcast from radio-Baghad by the author, dealing with salinity and its effects on soil, irrigation, and crops; sources of salinity and its formation. Types and degrees of salinity; plants and trees resistance to salinity. An outline of the steps to be taken for the reclamation of salty lands.

1-100479 — GOHAR (M.A.), ABDEL (M.S.) and MAKAWI (M.). An antibiotic-producing *Actinomyces* from Egyptian soil. *Gaz. Egypt. Paediatric Ass.* (1954), 2, No. 3, 285-91.

The antibiotic is moderately resistant to heat and acids, but sensitive to alkalis, and of low toxicity to mice. *In vitro* it has a broad spectrum active against gram-positive and negative organisms. It has a curative effect on mice experimentally infected with *Staphylococcus aureus*, but was not tried in human infection.

1-100480 — HASSAN (M.N.). The effect of single salt solutions on the histogenesis of radish seedlings. *Alexandria J. agr. Res.* (1955), 11, No. 1, 20-7.

Experiments are conducted with single salt solutions. However the different cations having certain effects upon the properties of the plant cells, may contribute to the understanding of the problem of growing plants on alkali soils. Abstract in Arabic

1-100481 — HILMAY (A.K.) and EL-GABALY (M.M.). Exchange reactions between sodium salts and calcium saturated soils. *Alexandria J. agr. Res.* (1955), 11, No. 1, 42-7.

Sodium adsorption from different sodium salts at varying concentrations by Ca-soil has been studied under equilibrium conditions. The results obtained indicate that Na adsorption is generally low except in the case where the Ca-salt produced as a result of exchange, is of limited solubility.

Accordingly greater adsorption of Na took place from Na₂CO₃, Na₂HPO₄, Na₂PO₄, and Na₄P₂O₇ solutions as compared with that from NaCl, NaCO₃, NaH₂PO₄ and Na₂SO₄. Abstract in Arabic.

1-100482 — KHALIL (F.). In Arabic (My agricultural observations in America). *Egypt. agr. Rev.* (1955), 33, No. 1, 1-7. Observations dealing mainly with soil and fertilizers.

VEGETAL PRODUCTION

1-100473 — ABD EL-AAL (I.) and SOROUR (M.). In Arabic (The *Racinus communis* crop). *Mon. agr. Bull. (Cairo)*, (1955), 14, o. 5, 14-7.

Varieties, method of cultivation, and economic importance of the crop.

1-100484 — ABD EL-BARR (A.A.). In Arabic. (Loss of organic matter into drainage water). *Farming* (1955), 53, No. 3, 230-43. Laboratory experiments for the evaluation of organic matter dissolved in drainage water due to the presence of sodium salts in the soil.

1-100485 — ABD EL-GHAFFAR (M.). In Arabic. (Dandara Cotton). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 11-4.

Dandara; the name given to "Giza 31" cotton, and its economic characteristics.

1-100486 — ABD EL-HAFEZ (O.). In Arabic. (The Egyptian cotton in outside markets). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 15-9.

The standard of the Egyptian cotton in comparison with other cottons in the international market.

1-100487 — ABD EL-RAOUF (I.A.). In Arabic. (Henna in Egypt). *Mon. agr. Bull. (Cairo)*, 1955, 14, No. 4, 10-37.

The history and commercial status of "henna" in Egypt, with specific directions for cultivation, and preparation of the crop for marketing.

1-100488 — ABD EL-RAOUF (A.I.). In Arabic. (Rice in June). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 6, 1-5.

Field practices applied for rice in June.

1-100489 — ABD EL-RAOUF (A.I.). In Arabic. (Rice in May). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 1-4.

The agricultural procedures to be accomplished in May for the preparation of rice nurseries and fields.

1-100490 — ABOU RAYA (M.A.). Growth analysis of cotton bolls. *Alexandria J. agr. Res.* (1955), 11, No. 1, 28-36.

During the first growth period of bolls developed early in the season, the growth, as shown by the periodically increasing fresh weight, is a function of the age and follows the autocatalytic reaction formula. This formula cannot be applied to the slow growth rate of bolls developed late in the season.

During the second growth period, which is almost half the developmental period there are variations among the different bolls. An explanation has been given of these variations.

Abstract in Arabic.

1-100491 — AZMY (Y.H.). In Arabic. (Tomato growing). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 6, 12-8.

Methods of growing tomatoes in Egypt, starting from the nursery to the fields of seed production.

1-100492 — EAD (M.T.). In Arabic. (Increasing the coefficient of growth and speeding the germination of Indian corn by soaking the seeds in organic salt solutions before sowing). *Egypt. agr. Rev.* (1955), 33, No. 1, 36-44.

The experiments of soaking corn seeds in solutions of salts used as fertilizers and certain other stimulatory salts, proved that some salts stimulate growth and others inhibit it.

- 1-100493 — GAD EL-HAKK (M.). In Arabic. (Rice). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 5-8.
The technical means for successful rice growing through improved varieties and proper agricultural procedures.
- 1-100494 — GOMAA (Y.). In Arabic. (Grapes). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 29-36.
The agricultural procedures and pests of the grape-vine orchards.
- 1-100495 — JADOA (M.A.). In Arabic. (Agricultural extension and its work). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 5.
After defining extension as a means through which the findings of experimental stations are extended to farmers for application in their farms, the author goes on to provide us with a detailed account of extension, describing its work, robe, functions, and objectives; and outlining measures to be taken to increase productivity and improving qualities. Furthermore the article contains a detailed report of the experiments, activities, and achievements during the extension campaign launched by the competent authorities.
- 1-100496 — JAMIL (M.). In Arabic. (Five-year plan). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 6.
Brief explanation of obstacles met by the Department of Land Settlement in adopting a five-year plan for finishing the work of land settlement. It also explains what is intended to be done for tackling and solving these problem.
- 1-100497 — KASIM (M.M.). In Arabic. (Pears). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 18-30.
Suitable conditions and necessary agricultural procedures for successful pear growing, with an appendix about the insect pests and diseases attacking this crop in Egypt.
- 1-100498 — KOTRY (A.). In Arabic. (Hena). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 9-13.
Method of cultivation of "henna" and the utilisation of the crop.
- 1-100499 — PAN (C.L.). In Arabic. (Rice production in Iraq). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 3.
A report on rice production in Iraq, containing figures and information. Importance of rice production, major problems of in growing rice, description of the principal varieties of rice grown in the country. Irrigation, drainage, method of planting, manuring and rotation, insects and diseases, threshing and rice milling, outline of the recommendations for improving rice production in Iraq.
- 1-100500 — SARSAM (N.). In Arabic (Sugar beet). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 4.
Interesting information, facts and figures about sugar beet cultivation in general, dealing with the most important items and salient points related to the subject, namely: crop rotation, time of cultivation, seeds and varieties, preparation of soil, agricultural measures, re-sowing, shinning, manuring, hoeing, uprooting-insects and pests.
- 1-100501 — SARSAM (N.), ALI (K.T.) and MCLEROY (G.). In Arabic. (Fodder from date products). *Quart. Mag. Iraq-Agric.* (1955), 10, No. 1, 5.
An account of the first experiment carried out to provide cheap and nutritive fodder for sheep, and find a good and sound market for large quantities of this product. The experiment carried out on 220 sheep representing the three major Iraqi breeds: Awassi, Kurdi and Arabi, divided in eleven separated groups. Dates- and their by-products have been the basic and major element in feeding these sheep during a given period. The experiment proved that sheep are not inclined to consume large quantities of this new fodder.
- 1-100502 — EL-SAYED (M.M.). In Arabic. (The discovery of fertile seeds of some sugarcane varieties grown in the Sudan). *Mon. agr. Bull. Bull (Cairo)*, (1955), 14, No. 6, 6-11.
The various sugar-cane varieties grown in the Sudan and the discovery of their fertile seeds.

- 1-100503 — EL-SONBATY (F.). In Arabic. (Pruning of bush roses). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 6, 19-26.
Steps and types of bush-rose pruning, taking into consideration the different factors affecting this procedure.

PHYTOPATHOLOGY, PESTS

- 1-100504 — ABBAS (H.M.) and RASHID KHAN (M.). Notes on life history of a hymenopterous parasite *Brason hebetor* Say.f on *Corcyra cephalonica* Staint. *Proc. 7th Pakistan Sci. Congress January 1955*.
This parasite was observed in fairly large numbers both in lab cultures and in local godowns at Karachi. Its life cycle is completed in about a fortnight. Ovi-position takes place after 24 hours of mating. Eggs hatch in 24-36 hours. The larval stage lasts 2-5-5 days, and the pupal stage from 3-5 das.
- 1-100505 — AHMAD (T.). Plant protection in the service of agriculture. *Proc. 7th. Pakistan Sci. Congress, an.* (1955),
Presidential address to the section of animal husbandry and forestry. Importance of pests and diseases; plant protection service in Pakistan (comprising locust control and control of other crop pests and diseases control of grain storage pests and plant quarantine measures are dealt with in detail.
In conclusion, the author studied the future development of plant protection and its research.
- 1-100506 — ALAM (M.Z.) and HAZARIKA (S.H.). Biology of the mango defoliator *Cricula trifenestrata* Helfer (Saturniidae. Lepidoptera) in East Pakistan. *Scient. Pakistan*, (1953), 1, No. 2/3, 55-64.
This is a pest of major importance in Eastern Pakistan. Its chief host is the mango tree, to which it causes defoliation and decrease of inflorescence. The morphology, physiology, habits and parasites, and predators of the insect are described.
- 1-100507 — DAD KHAN (F.). The biology of *Sphenoptera lafertei* Thomson. *Proc. 7th. Pakistan Sci. Congress, January 1955*.
This is a serious pest of all *Prunus* species in Pakistan. The aetiology, ecology, life habits, and life cycle are discussed in detail. Its different stages: the egg, the larv, and the beetle, are described.
- 1-100508 — DAD KHAN (F.). Some field trails in the control of insect pests by lent fumigation with hydrocyanic acid gas. *Proc. 7th Pakistan Sci. Congress. January 1955*.
Detailed investigations of the tent technique for fumigation with H CON gas and of the pot sodium cyanide method are included. Their efficiency, duration, and diffusion were compared, and the tent method was shown to be better.
- 1-100509 — GHABN (A.). In Arabic. (Cotton and onion thrips). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 4, 44-7.
The life history and host plants of this pest with notes about the type of injury and methods of control.
- 1-100510 — EL-HELALY (A.F.), IBRAHIM (I.A.) and EL-AROSI (H.M.). Studies on some factors affecting the prevalence and distribution of cigar-end disease of banana in Egypt. *Alexandria J. agr. Res.* (1955), 11, No. 2, 9-24.
Cigar-end disease of banana is primarily a plantation disease commonly found in banana plantations in Egypt. The fungus isolated from cigar-end disease was identified, and named *Verticillium theobromae* by the Commonwealth Mycological Institute. Typical symptoms of cigar-end disease were obtained by artificial inoculation in the laboratory, while in the field the trials were not successful. The pathogen grew at temperatures ranging from 10°C to 30°C., optimum (growth temperature 25°C. Growth of the pathogen was fairly well on alkaline media ranging from pH 7.5 to pH 11.3, whereas acid media did not favour growth and sporulation. No growth occurred at pH 2, and the fungus did not sporulate on media ranging from pH 3.3 to 5.2. No growth occurred when carbon was added in the form of methyl alcohol.
Abstract in Arabic. (13 references),

- 1-100511 — MOIZ (S.A.) and ABDALI (S.A.R.). **White-ant attack on cotton and trials of its control in Sind.** *Proc. 7th. Pakistan Sci. Congress, January* (1955).

The paper gives a description of the attack and its different stages; then discusses the three species commonly found in Sind. Of the insecticides and repellents tried, seed dressing with 16oz 50%D.D.T. or 8oz. technical D.D.T. per 20 ebb. of seed, and soil treatment with 180 lb of 0.65% gammexane were satisfactory.

- 1-100512 — WAHID-KHAN (A.). **Observations on the natural mortality of locusts in desert areas of Thal due to sunheat.** *Proc. 7th. Pakistan Sci. Congress, Jan.* (1955).

In 1951 it was discovered by chance that sunheat totally killed locusts at 3rd 4th stage in the desert. They died at 60-70°C temperatures but not at 44-57°C soil surface temperatures. They took 20-30 minutes to die with 100% knock-down.

- 1-100513 — EL-SHIATY (M.A.). **In Arabic.** (Control of post-harvest diseases of orange fruits). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 44-55.

Different chemical treatments of oranges to prevent spoilage.

FORESTRY

- 1-100514 — HELWA (A.El.). **In Arabic.** (Poplar growing in Syria). *Chamber Gezir's Agricult.* (1955), No. 3, 1-150.

Poplar growing in the Near East, with special reference to Syria, with notes about poplar species, pests and economic importance. Technical experiments on the plantation of local and imported poplar species in Syria are reported.

- 1-100515 — PIRAN (M.I.). **In Arabic.** (The dangers of forest fires). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 7.

Outline of the dangers and grave consequences of fire breaking out in forests. Causes of fire and what can be done by the public to overcome this danger.

ANIMAL HAUSANDRY

- 1-100516 — AHMED (I.A.) and TANTAWY (A.O.). **Growth in Egyptian cattle during the first two years of age.** *Alexandria J. agr. Res.* (1955), 11, No. 1, 1-11.

Average birth weight of Egyptian cattle. Absolute gain per month. Rate of growth was high during the first two months of life, then it decreased gradually till it reached a lower level at the end of the period studied. There was no significant difference between buffalo and cow-calves during the first two months of age, when body weight was expressed as percentage to birth weight, after which the differences between the two groups became significantly high. Birth weight was found to have great influence on subsequent monthly weights; the heavier the birth weight, the greater the monthly weight.

Abstract in Arabic (27 references).

- 1-100517 — F.A.O. — **In Arabic.** (Fish, an important source of rural economy). *Quart. Mag. Iraq Agric.* (1955), 10, No. 1, 7.

The possibilities and potentialities of utilising marshes for large scale fish-breeding, and the effect on the development of rural economy. Some interesting figures of fish production in the world; some hints on fishbreeding in rice-fields, as applied in some African countries like Nigeria and Tanganyika; an outline of the economic benefits and advantages derived from this twofold method in fish-farming.

- 1-100518 — HAMADA (M.K.O.). **A study of birth weight in British mutton breeds.** *Alexandria J. agr. Res.* (1955), 11, No. 1, 58-69.

The main data collected for this study were obtained from flocks at the University of Edinburgh's experimental farms.

Breed differences in birthweight between the groups of lambs studied and the relationship between the weight of the ewe and the birth weight of her lamb were studied.

Abstract in Arabic.

- 1-100519 — HAMADA (M.K.O.). **A study of growth in weight in British mutton breeds.** *Alexandria J. agr. Res.* (1955), 11, No. 2, 31-46.

A comparative study of different English breeds, carried out at Edinburgh University. Abstract in Arabic.

- 1-100520 — RASHWAN (M.E.). **In Arabic.** (Artificial transfer of semen and its effect in raising the standard of animal production). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 4, 48-56.

The different aspects of applying this method to improve Egyptian Cattle.

- 1-100521 — RASHWAN (M.E.). **In Arabic.** (Sterility and low reproductive capacity in cows, and their reasons). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 2, 37-41.

Principal methods and proper applications to increase the fertility of cows.

VETERINARY MEDICINE

- 1-100522 — AL MUMAYEZ (N.D.A.). **In Arabic** (Fowl pox).

A summarised on about this disease, causes and symptoms of the disease, its manifestations and mortality. Precautionary measures, treatment, and control measures, vaccination.

- 1-100523 — NEEL (R.), MINOR (L.) et TASLIMI (H.). **Les variations dans la fermentation des glucides par *Salmonella gallinarum* et *Salmonella pullorum*. Leur intérêt diagnostique.** *Arch. Inst. Hesseck, Teheran* (1955), 9, 26-32.

Pour le groupe *S. gallinarum*-*S. pullorum* des variations considérables peuvent être observées dans les fermentations glucidiques et l'espèce est mal définie par ses caractères biochimiques. Ceux-ci n'ont d'intérêt que s'ils sont étudiés à l'isolement d'une souche. Il faut cependant faire la réserve que l'on peut observer des variations dans certaines fermentations dès l'isolement. Cette instabilité dans l'action biochimique est en faveur de l'unicité de l'espèce. D'autre part des observations de plus en plus fréquentes à l'heure actuelle montrent que volaille ou volaille jeune sont également sensibles aux deux variétés *gallinarum* et *pullorum*.

- 1-100524 — RAFYI (A.), KAWEH (M.) et RAMIAR (H.). **La conservation du virus de la peste bovine par lyophilisation.** *Arch. Inst. Hesseck, Teheran* (1955), 9, 82-4.

Le virus de la peste bovine lyophilisé et conservé à la glacière à +4°C, selon notre technique, garde sa virulence jusqu'au trente-deuxième mois. Il commence à se raréfier à partir de cette date.

- 1-100525 — WAHBY (M.M.) and TADROS (M.M.). **Report of the official scientific mission to Onderstepoort, Pretoria, Union of South Africa, on the recent advances in the horse sickness researches.** *Tech. Bull. Minist. Agric. Vet. Lab. Res. Supervision, Cairo* (1955), No. 277, 1-13.

- 1-100526 — ZAKY (S.). **In Arabic.** (Hydrophobia). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 5, 56-9.

A summary of the most important lines to be followed towards the control of this disease.

FOOD INDUSTRIES

- 1-100527 — ABU NASR (A.M.). **In Arabic.** (An oil seed suitable for cultivation in the desert. Analysis and characterisation of the oil). *Oil & Soap, Alexandria*, (1955), 2, No. 6, 165-6.

- 1-100528 — BADR (M.F.). **The effect of ration on the carotene and vitamin A potency in the milk of Egyptian cows and buffaloes.** *Alexandria J. agr. Res.* (1955), 11, No. 1, 12-9.

Vitamin A activity was determined in the milk of 27 cows and 20 buffaloes, which had an excess of carotene in their winter rations, consisting of concentrate mixture and berseem as green roughage. Results showed that buffalo's milk contained on the average 29.5 micrograms of carotene per 100ml. The total vitamin A activity was 43.3 and 55.5 micrograms per 100 ml.

for cow's and buffalo's milk respectively. After 70 days of feeding on a poor carotene ration in summer, the carotene content of cows' milk markedly decreased, and in most cases there were only traces of carotene in the milk. The total vitamin A activity for both cow's and buffalo's milk produced in summer was about 2/3 that of milk produced in winter. However, cows and buffaloes which received clover hay and or sweet corn as green fodder in their summer ration maintained high vitamin A activity in their milk.

Abstract in Arabic.

- 1-100529 — EL-NEGOUMY (A.M.). Some factors affecting the concentration of citric acid in the milk of Egyptian buffaloes and cows. *Alexandria J. Agr. Res.* (1955), 11, No. 1, 70-81.

The citric acid content of milk from individual buffaloes is a characteristic of each animal. The citric acid content of pooled milk from one herd of buffaloes is quite rich when compared with the content of pooled milk from cows. Buffaloes' milk showed extremes of 0.188 to 0.255 per cent, with an average of 0.224 per cent, as compared with cows' milk which showed extremes of 0.140 to 0.200 percent and an average of 0.171 percent. No significant correlation was found between the acidity and pH of milk and its citric acid content. Boiling of milk causes a decrease in its citric acid content ranging from 0.011 to 0.038 percent. Pasteurisation has no significant effect on the citric acid content. Development of natural acidity causes a progressive diminution of citric acid. When milk acidity reaches the limit of 0.60 to 0.80 percent, the citric acid either vanishes completely or very little is left.

Abstract in Arabic.

- 1-100530 — ISMAIL (A.A.) and ONSY (A.M.). The relationship between composition of milk and yield and composition of soft Domiati cheese. *Alexandria J. agr. Res.*, (1955), 11, No. 2, 50-59.

The effect of casein and fat content of milk upon the yield and composition of soft Domiati cheese manufactured from it, immediately after manufacture, and after storage in brine solution for 5 weeks, was studied.

A reverse relationship was found between casein per unit of

fat in milk and fat % in dry matter of cheese, and direct relation ship between total nitrogen 6.38 per unit of fat in cheese and casein per unit of fat in milk. The Van Slyke formula for yield estimation of cheddar cheese did not fit the results obtained in this investigation. The formula: $\text{yield} = (\text{fat \%} + 3) \times 2.989$, based on results from 27 lots of cheese, is suggested for calculating yield of soft Domiati cheese.

Abstract in Arabic.

- 1-100531 — RAKSHY (S.E.S.E.) and MOHAMED (M.S.). Comparative studies on casein prepared from milk of different species of animals I. Solation, iodination, titration curves, and digestion with proteolytic enzymes. *Alexandria J. agr. Res.* (1955), 11, No. 2, 76-86.

Casein from the milk of four species of Egyptian farm animals, cow, buffalo, goat, and sheep, was prepared according to a new and improved procedure. Caseins of the different species possessed different isoelectric points. Species differences were also exerted on the titration curves of the four proteins. Although the curves had the same general shape, yet they showed marked differences due to their different binding capacities for acid and base. The overall content of nitrogen, phosphorus, and sulfur of casein was not affected by species differences. Of the iodinated caseins of the four species, titration curves and isoelectric points were established.

Enzymic digestion of the proteins showed differences in their susceptibilities towards proteolysis. Cow casein was the most susceptible, goat and buffalo caseins were least affected, while sheep casein showed medium susceptibility.

Abstract in Arabic (28 references).

- 1-100532 — EL-SHATHLY (A.). In Arabic. (Shrimp preserving industry). *Mon. agr. Bull. (Cairo)*, 14, No. 2, 50-5.

A report on this industry that started recently in Egypt.

- 1-100533 — SIDKY (A.). In Arabic. (Dairy affairs in Egypt). *Mon. agr. Bull. (Cairo)*, (1955), 14, No. 4, 1-9.

Broad outlines of dairy business in Egypt and a proposed policy for its improvement in the near and far future.

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